



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

icant(s):

Mark S. Moir et al.

Title:

OBSTRUCTION-FREE SYNCHRONIZATION FOR SHARED DATA

STRUCTURES

Application No.: 10/620,748

Filed:

July 16, 2003

Examiner:

Mano Padmanabhan

Group Art Unit: 2188

Atty. Docket No.: 004-8252

September 27, 2004

Mail Stop Amendment COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT 37 C.F.R. § 1.97(b)

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

\boxtimes	Form(s) PTO-1449 (2 pages), including copy(ies) of 33 reference(s).
	Other: n/a

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

- 1. an admission that the information necessarily is, or corresponds to, prior art with respect to the instant invention;
- 2. a representation that a search has been made, other than as described below; or
- 3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Pursuant to 1276 OG 55 (August 5, 2003), Information Disclosure Statements may be filed without copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance through (i) an English language abstract, (ii) an English language equivalent application, or (iii) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

FEE AUTHORIZATION

This Information Disclosure Statement is filed within three months of the filing
date of a national application other than a continued prosecution application under
§ 1.53(d) or within three months of entry of the national stage as set forth in
§ 1.491 in an international application. Therefore, no fee is required.

The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

If however, this Information Disclosure Statement is filed after the period specified in § 1.97(b), the undersigned hereby authorizes the Commissioner to charge the fee set forth in § 1.17(p) to Deposit Account No 50-0631.

	CERTIFICATE OF MAILING (OR TRANSMISSION
	creby certify that, on the date shown respondence is being	below, this
×	deposited with the US Postal Service as first class mail, in an envelope at for Patents, P.O. Box 1460, Alexan	ddressed to Commissioner
	facsimile transmitted to the US Pat	
_	David W. O'Brien	27-Sep-04

EXPRESS MAIL LABEL:

Respectfully submitted,

David W. O'Brien, Reg. No. 40,107

Attorney for Applicant(s)

(512) 338-6314

(512) 338-6301 (fax)

		<u> </u>				Sheet I of
U.S.:Departm	ent of Co	mmerce, Patent and Tra	idemark Office		Attorney Docket No.:	004-8252
JC					Application No.:	10/620,748
IN	FORMA	TION DISCLOSURE	STATEMENT BY APPL	LICANT	Applicant(s):	Moir et al.
9 700	, 8	(Use several she	ets if necessary)		Filing Date:	July 16, 2003
SEP	<u>\$</u>		<u></u>		Group Art Unit:	2188
	4				Date Submitted:	September 27, 2004
			NON PATENT LITE	RATURE DOCUME	NTS	
*Examiner Initial	Cite No.	(Includin	g name of author in capit volume-issue number(s),			
	1		, "Long-Lived Renaming ting, pages 91-104, 1999		18 th Annual ACM Sym	nposium on Principles o
	2	Afek, Yehuda, "Wa 547, 1995.	it-Free Made Fast", 27 ^t	h Annual ACM Sym	posium on Theory of	Computing, pages 538-
	3		"DCAS-Based Concurre		nual ACM Symposium	n on Parallel
	4		. et al., " <i>Using Local-Sp</i> 12 th Annual ACM Symp 7).			
Arora, Nimar S. et al., "Thread Scheduling for Multiprogrammed Multiprocessor Symposium on Parallel Algorithms and Architectures, pages 119-129, 1998.						10 th Annual ACM
	6	Attiya, Hagit et al., Technion, Israel, M	"An Adaptive Collect A. (ay 10, 2001.	lgorithm with Applic	cations", Dept. of Cor	nputing Science, The
	7		fethod for Implementing allel Algorithms and Arc			Annual ACM
	8	Bayer, R. et al., "C	oncurrency of Operation	as on B-Trees", Acta	a Informatica, 1977.	
	9		t al., "Even Better DCAS ting, pages 59-73, 2000.		Deques", 14th Interna	tional Conference on
	10		t al., "Lock-Free Referer ting, pages 190-199, 200		Annual ACM Sympos	ium on Principles of
Dice, David et al., "Mostly Lock-Free Malloc", ACM 2002.ACM SIGPLAN Internation Memory Management, June 2002. 12 Greenwald, Michael B., "Non-Blocking Synchronization and System Design", PhD Thesis University Technical Report STAN-CS-TR-1624, Palo Alto, California, August 1999.					national Symposium on	
	13		A Methodology for Implanguages and System, pa			ts", ACM Transactions
	14	Herlihy, Maurice, 'TR-2002-112, June	Dynamic-Sized Lockfree 2002.	e Data Structures",	Sun Microsystems Te	chnical Report SMLI
.,	15		al., "Linearizability: A ogramming Languages a			bjects", ACM
	16		t al., "The Repeat Offendes", Sun Microsystems			
Examiner	/She	eng Jen Tsai/	Date Considered	04/29/2008		
		eference considered, whet of this form with your co	her or not citation is in confor	mance with MPEP 609;	Draw line through citation	if not in conformance and no
		, ,				

J.S. Departm	ent of Co	ommerce, Patent and Trademark Office	Attorney Docket No.: 004-8252				
			Application No.: 10/620,748				
IN	FORMA	TION DISCLOSURE STATEMENT BY APPLICANT	Applicant(s): Moir et al.				
	_	(Use several sheets if necessary)	Filing Date: July 16, 2003				
	 -		Group Art Unit: 2188				
		NON PATENT LITERATURE DOCUME	Date Submitted: September 27, 2004				
	Γ						
Examiner Initial	Cite No.	(Including name of author in capital letters, title of article, title of item, date, pertinent pages, volume-issue number(s), publisher, city and/or country where published.)					
	17	Herlihy, Maurice et al., "Transactional Memory: Architectural International Symposium in Computer Architecture, 1993.	Support for Lock-Free Data Structures", 2				
	18	Herlihy, Maurice et al., "Obstruction-Free Synchronization: D International Conference on Distributed Computing, May 2003					
	19	Israeli, Amos et al., "Disjoint-Access-Parallel Implementation: Annual ACM Symposium on Principles of Distributed Comput					
	20	Lamport, Leslie, "How to Make a Multiprocessor Computer that Correctly Executes Multiprocess Programs", IEEE Transactions on Computers, September 1979.					
	21	Luchangco, Victor et al., "Nonblocking k-compare-single-swap", 15 th Annual ACM Symposium on Parallel Algorithms and Architectures, June 2003.					
,	22	Martin, Paul et al., "DCAS-Based Concurrent Deques Support Technical Report SMI TR-2002-111, October 2002.	ing Bulk Allocation", Sun Microsystems, In				
	23	Michael, Maged M. et al., "Non-Blocking Algorithms and Press Shared Memory Multiprocessors", Journal of Parallel and Dist					
	24	Michael, Maged M. et al., "Simple, Fast and Practical Non-Bl. Algorithms", 15th Annual ACM Symposium on Principles of D	ocking and Blocking Concurrent Queue istributed Computing, pages 267-276, 1990				
	25	Michael, Maged M., "Safe Memory Reclamation for Dynamic Writes", 21st Annual ACM Symposium on Principles of Distrib					
	26	Moir, Mark, "Laziness Pays! Using Lazy Synchronization Med Constructions", 19th Annual ACM Symposium on Principles of	hanisms to Improve Non-Blocking f Distributed Computing, 2000.				
	27	Moir, Mark, "Practical Implementations of Non-Blocking Sync Symposium on Principles of Distributed Computing, 1997.					
V V	28	Moir, Mark, "Transparent Support for Wait-Free Transactions Algorithms, 1997.	", 11 th International Workshop on Distribu				
	29	Moir, Mark et al., "Wait-Free Algorithms for Fast, Long-Lived Programming, August 1994.	Renaming", Science of Computer				
	30	Saks, Michael et al., "Optimal Time Randomized Consensus - 2 nd ACM SIAM Symposium on Discrete Algorithms, pages 35	Making Resilient Algorithms Fast in Practi 1-362, 1991.				
	31	Shavit, Nir et al., "Software Transactional Memory", Distribut					
	32	Trieber, R, "Systems Programming: Coping with Parallelism", 1986.	IBM Technical Report RJ5118, April 23,				
	33	Turek, John et al., "Locking without Blocking: Making Lock Bo Nonblocking", 11th ACM SIGACT-SIGMOD-SIGART Sympos	ased Concurrent Data Structure Algorithm ium on Principles of Database Systems, 19				
Examiner	•	/Sheng Jen Tsai/ Date Considered 04/29/2008	}				

considered. Include copy of this form with your communication to applicant.